

20. (twice amended) A color liquid crystal display apparatus as claimed in claim 17, wherein said lower light-transmission flatted layer is a polyimide film in which a polyimide precursor whose molecular terminal is end-capped is imidized by heat-curing.

REMARKS

By the above amendment, the specification has been amended at page 28 to utilize reference numbers 25 and 26 with regard to the description of Fig. 20 so as to overcome the objection to the drawings that the reference numbers 25 and 26 are not mentioned in the description. As is apparent from Fig. 20 and the corresponding description, as amended, reference number 24 represents a display region while reference numbers 25 and 26 represents external terminal regions, as illustrated. Thus, the drawing objection under 37 CFR 1.84(p)(5) should now be overcome.

As to the drawing objection under 37 CFR 1.83(a), the Examiner indicates that specific features of claims 15-16 as set forth are not illustrated, and that such features must be shown or the features canceled from the claims. By the present amendment, claims 15 and 16 have been amended to delete the features referred to by the Examiner, such that applicants submit that this drawing objection should now be overcome.

It is noted that the Examiner has approved the drawing correction filed on November 26, 2001, and in accordance therewith, and in response to the Notice of Draftspersons Patent Drawing Review, submitted herewith is a corrected Fig. 13, such that applicants submit that all objections to the drawings should now be overcome and the drawings submitted in this application should now be considered to be acceptable.

Also, by the present amendment, the claims have been amended in a manner which is considered to overcome the rejection of the claims under 35 U.S.C. §112, second paragraph, taking into consideration the points raised by the Examiner.

Thus, applicants submit that all claims present in this application, as amended, should now be considered to be in compliance with 35 U.S.C. §112, second paragraph.

Applicants note that claims 3-4, 7-8, 10 and 13-20 which are the only claims pending in this application, are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 5-6, 9 and 11-12 of copending application No. 09/797,720, which is the parent application of the present application. As recognized by the Examiner, the rejection is a "provisional" rejection because the claims of the parent application have not been patented, nor allowed at this point and time. Accordingly, applicants consider it unnecessary to respond to the provisional rejection at this time, since the claims of the copending parent application have not been allowed. If this rejection becomes non-provisional, applicants will consider the submission of a Terminal Disclaimer, if, in fact a proper actual rejection is made, when the claims of the copending parent application are indicated as being allowed. Accordingly, a further response to this provisional rejection is considered unnecessary at this time.

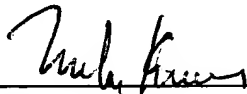
Applicants note that the Examiner has not rejected the claims of this application over prior art including the art cited by the Examiner, such that applicants submit that all claims present in this application should now be in condition for allowance.

In view of the above amendments and remarks, applicants submit that the informalities noted by the Examiner in the application including the drawings and the rejection of the claims under 35 U.S.C. §112, second paragraph, have now been overcome, and that all claims present in this application should now be in condition for allowance, and issuance of an action of a favorable nature is courteously solicited.

To the extent necessary, applicant's petition for an extension of time under 37 CFR 1.136. Please charge any shortage in the fees due in connection with the filing

of this paper, including extension of time fees, to Deposit Account No. 01-2135 (500.39756CX1) and please credit any excess fees to such deposit account.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Melvin Kraus", written over a horizontal line.

Melvin Kraus

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S.N. 09/992,018

VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE SPECIFICATION:

Page 28, please amend the paragraph beginning at line 3 as follows:

Fig. 20 is an arranging example of a display region 24 and an external terminal ~~region~~ regions 25 and 26 in a liquid crystal panel. The inorganic insulating layer as explained in the above-explained first embodiment is formed to substantially completely cover the entire surface of the substrate, and also covers and protects an external electrode terminal which is provided every wiring at the peripheral portion of the element substrate 1.

IN THE CLAIMS:

Please amend claims 3, 4, 7, 8, 10, 13, 14, 15, 16 and 18-20 as follows:

3. (twice amended) A color liquid crystal display apparatus ~~characterized~~
~~in that~~ comprising:

~~said a~~ color liquid crystal panel ~~comprises on one substrate of~~ including a pair of substrates which sandwich a liquid crystal;

one substrate of said pair of substrates having thereon thin-film transistor elements arranged in a matrix shape in correspondence with pixels;

a wiring portion of said thin-film transistor elements;

a pixel electrode connected to said wiring portion; and

a color filter layer formed between said pixel electrode and an inorganic insulating layer for covering said wiring portion of said thin-film transistor elements, wherein said color filter layer includes a lower light-transmission flatted layer and a primary-color-type colored filter pattern, and is provided an opening through which a connection portion of said wiring portion of said thin-film transistor elements and said pixel electrode is penetrated;

another substrate of said pair of substrates have a common electrode
commonly used for plural pixels is formed ~~on the other substrate~~ thereon;
wherein said pixel electrode is driven by said thin-film ~~file~~ film transistor elements in
response to an image signal; and
wherein said liquid crystal is driven by a voltage applied between said pixel
electrode and said common electrode to form an image.

4. (twice amended) A color liquid crystal display apparatus characterized
in that comprising:

~~said a~~ color liquid crystal panel ~~comprises on one substrate of~~ including a pair
of substrates which sandwich liquid crystal;

one substrate of said pair of substrates having thereon thin-film transistor
elements arranged in a matrix shape in correspondence with pixels;

a wiring portion of said thin-film transistor elements;

a pixel electrode connected to said wiring portion; and

a color filter layer formed between said pixel electrode and an inorganic
insulating layer for covering said wiring portion of said thin-film transistor elements,
wherein said color filter layer includes a lower light-transmission flatted layer, a
primary-color-type colored filter pattern and an upper light-transmission protection
layer, and is provided with an opening through which a connection portion of said
wiring portion and said pixel electrode is penetrated; and

another substrate of said pair of substrates have a common electrode
commonly used for plural pixels is formed ~~on the other substrate~~ thereon;

wherein said pixel electrode is driven by said thin-film ~~file~~ film transistor elements in
response to an image signal; and

wherein said liquid crystal is driven by a voltage applied between said pixel
electrode and said common electrode to form an image.

7. (twice amended) A color liquid crystal display apparatus as claimed in claim 3 ~~characterized in that:~~ wherein said lower light-transmission flatted layer and said primary-color-type colored pattern are made of photosensitive resin.

8. (twice amended) A color liquid crystal display apparatus as claimed in claim 4 ~~characterized in that:~~ wherein said lower light-transmission flatted layer, said primary-color-type colored pattern and said upper light-transmission protection layer are made of photosensitive resin.

10. (twice amended) A color liquid crystal display apparatus as claimed in claim 4 ~~characterized in that:~~ wherein said lower light-transmission flatted layer and said upper light-transmission protection layer are made of thermosetting resin.

13. (twice amended) A color liquid crystal display apparatus as claimed in claim 3 ~~characterized in that:~~ wherein said lower light-transmission flatted layer is a polyimide film in which a polyimide precursor whose molecular terminal is end-capped is imidized by heat-curing.

14. (twice amended) A color liquid crystal display apparatus as claimed in claim 4 ~~characterized in that:~~ wherein said lower light-transmission flatted layer is a polyimide film in which a polyimide precursor whose molecular terminal is end-capped is imidized by heat-curing.

15. (amended) A color liquid crystal display apparatus as claimed in claim 3, ~~characterized in that:~~ wherein an external electrode terminal is provided for every wiring ~~is covered with said inorganic insulating layer, is covered with at least one of said lower light-transmission flatted layer and said upper light-transmission protection~~

layer, and is provided on a said one substrate which has an opening for exposing said external electrode terminal ~~portion~~.

16. (amended) A color liquid crystal display apparatus as claimed in claim 4, ~~characterized in that:~~ wherein an external electrode terminal is provided for every wiring ~~is covered with said inorganic insulating layer, is covered with at least one of said lower light-transmission flatted layer and said upper light-transmission protection layer,~~ and is provided on a said one substrate which has an opening for exposing said external electrode terminal portion.

18. (amended) A color liquid crystal display apparatus as claimed in claim 17 ~~characterized in that:~~ wherein said lower light-transmission flatted layer, said primary-color-type colored pattern and ~~said~~ an upper light-transmission protection layer are made of photosensitive resin.

19. (amended) A color liquid crystal display apparatus as claimed in claim 17 ~~characterized in that:~~ wherein said lower light-transmission flatted layer and ~~said~~ an upper light-transmission protection layer are made of thermosetting resin.

20. (twice amended) A color liquid crystal display apparatus as claimed in claim 17 ~~characterized in that:~~ wherein said lower light-transmission flatted layer is a polyimide film in which a polyimide precursor whose molecular terminal is end-capped is imidized by heat-curing.